

Fig. 1

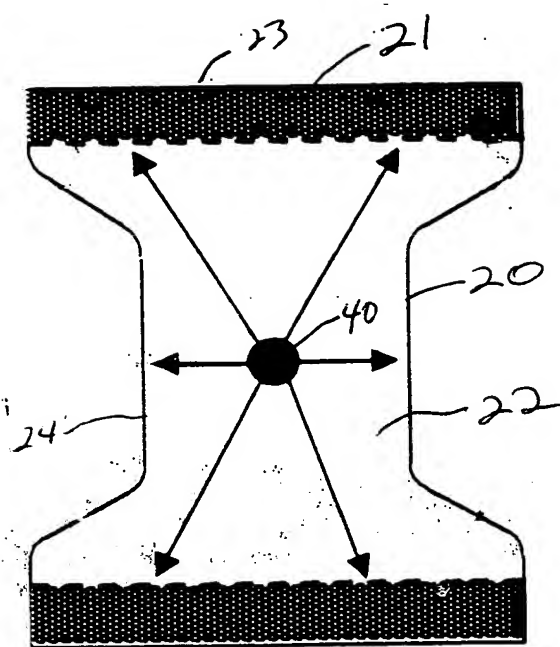


Fig. 2

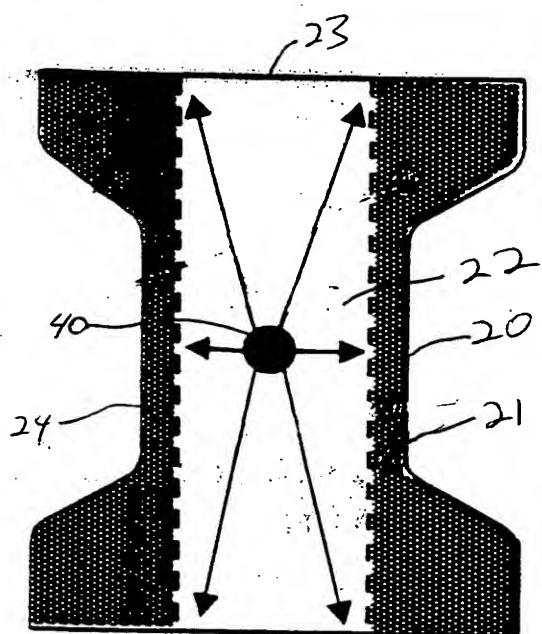


Fig. 3

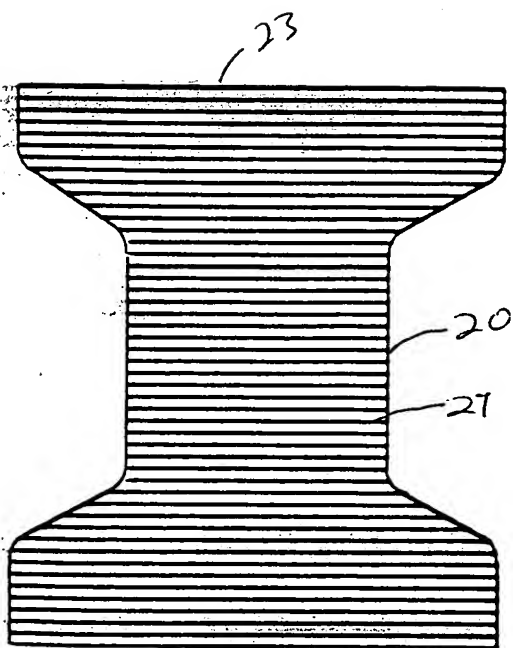


Fig. 4

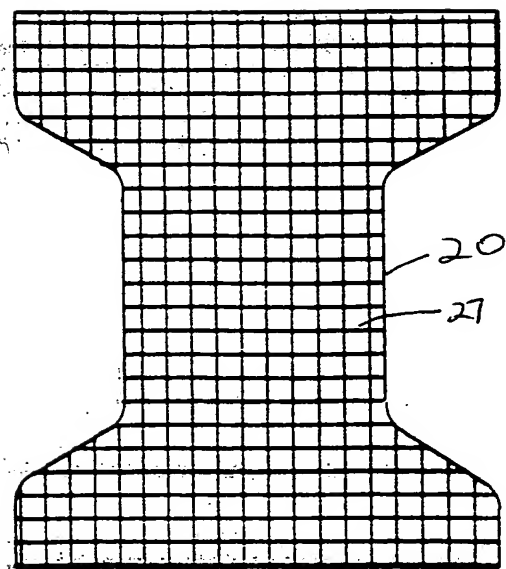


Fig. 5

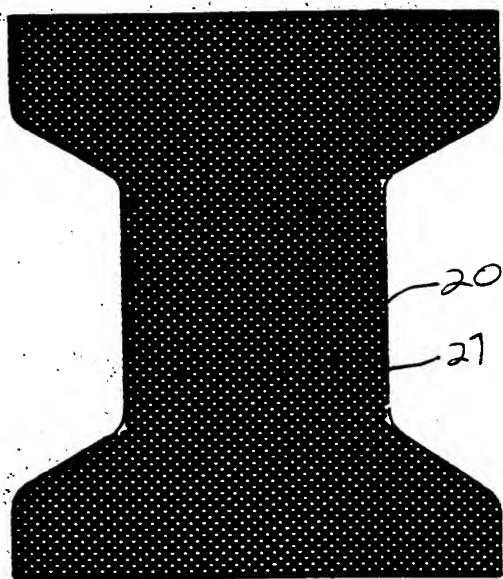


Fig. 6.

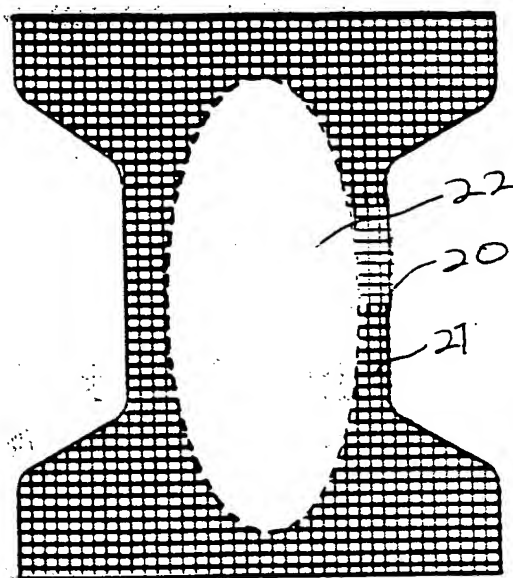


Fig. 7

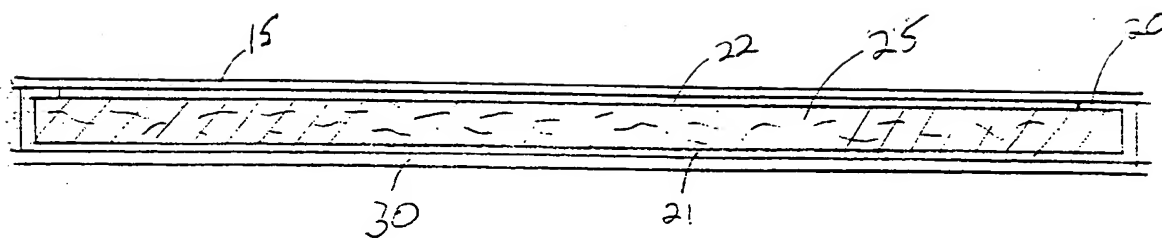


Fig. 8

FIG. 9 is a schematic diagram of a system 50 for processing a material 52. The system 50 includes a material 52, a processing unit 20, a conveyor 54, a material 58, a material 60, a material 62, a material 64, a material 66, and a material 68. The material 52 is fed into the processing unit 20, which is connected to the conveyor 54. The conveyor 54 moves the material 58, 60, 62, 64, 66, and 68 through the system 50.

Fig. 9

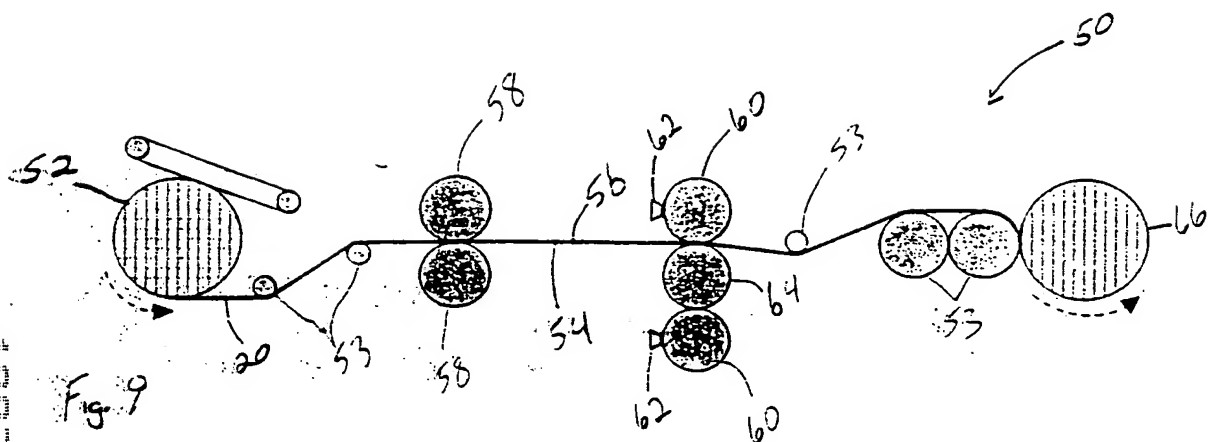
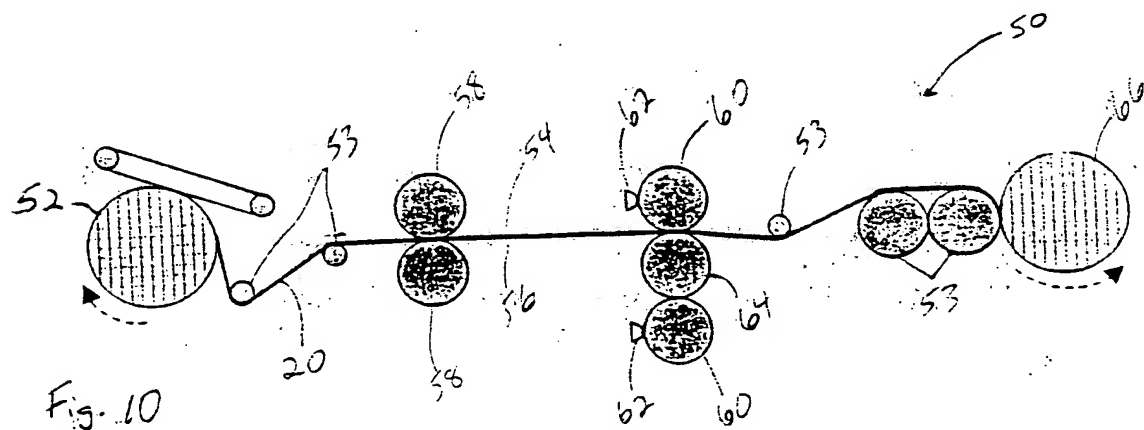


Fig. 10



It is to be understood that the present invention is not limited to the specific details shown and described herein, but may be embodied in other forms without departing from the spirit and scope of the invention.

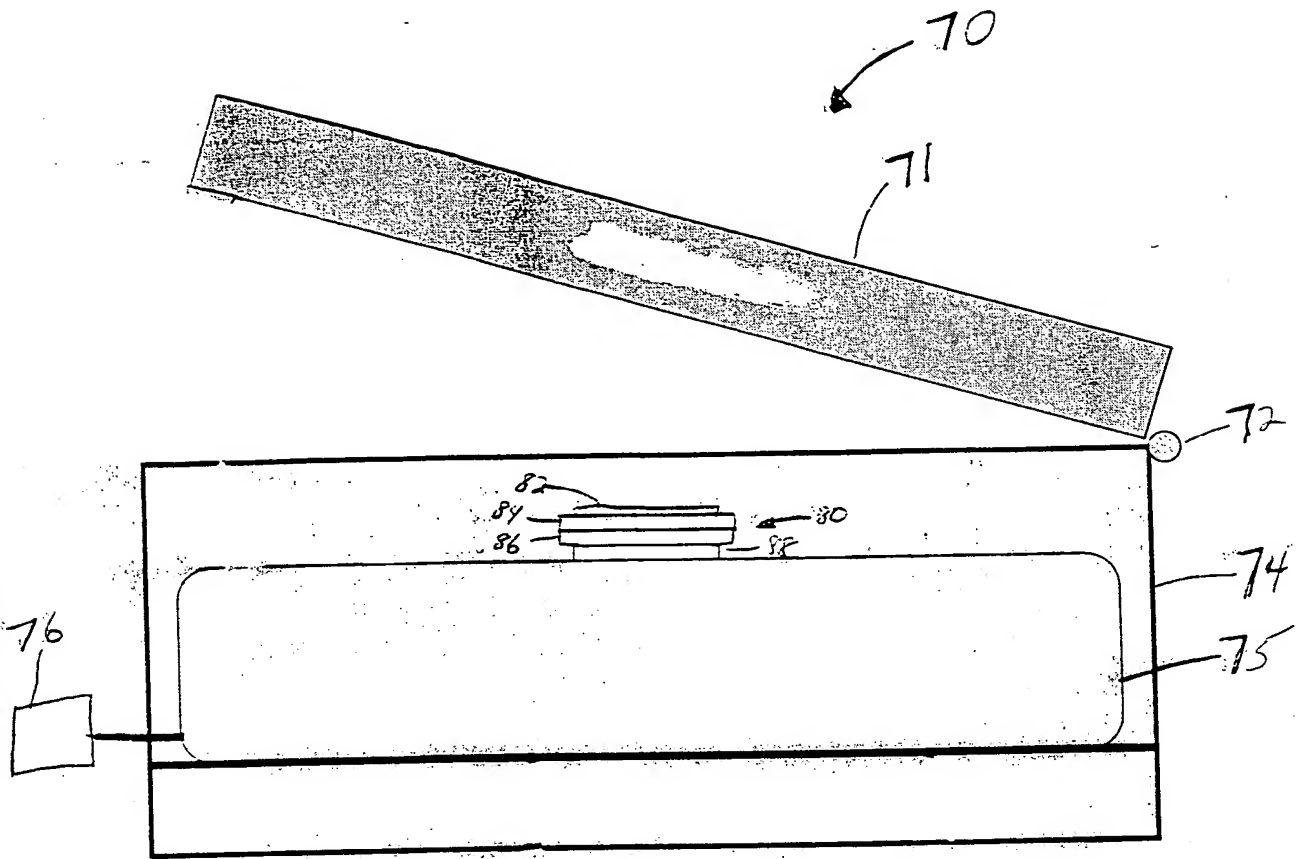


Fig. 11

Figure 12 shows the results of the saturation tests for the multi-layer system. The data is presented in a line graph showing the percentage of water saturation versus pressure (PSI) for two samples, Sample 1 and Sample 2. The x-axis represents pressure in PSI, ranging from 0.5 to 3.0. The y-axis represents the percentage of water saturation, ranging from 0% to 140%. Sample 1 is represented by a solid line with square markers, and Sample 2 is represented by a solid line with diamond markers. The data points for Sample 1 are: (0.5, 28%), (1.0, 31%), (1.5, 89%), (2.0, 77%), and (3.0, 98%). The data points for Sample 2 are: (0.5, 5.2%), (1.0, 5.0%), (1.5, 4.9%), (2.0, 5.3%), and (3.0, 6.9%).

FIG. 12

REWET UNDER LOAD @ 50% SATURATION RESULTS FOR MULTI-LAYER SYSTEM.

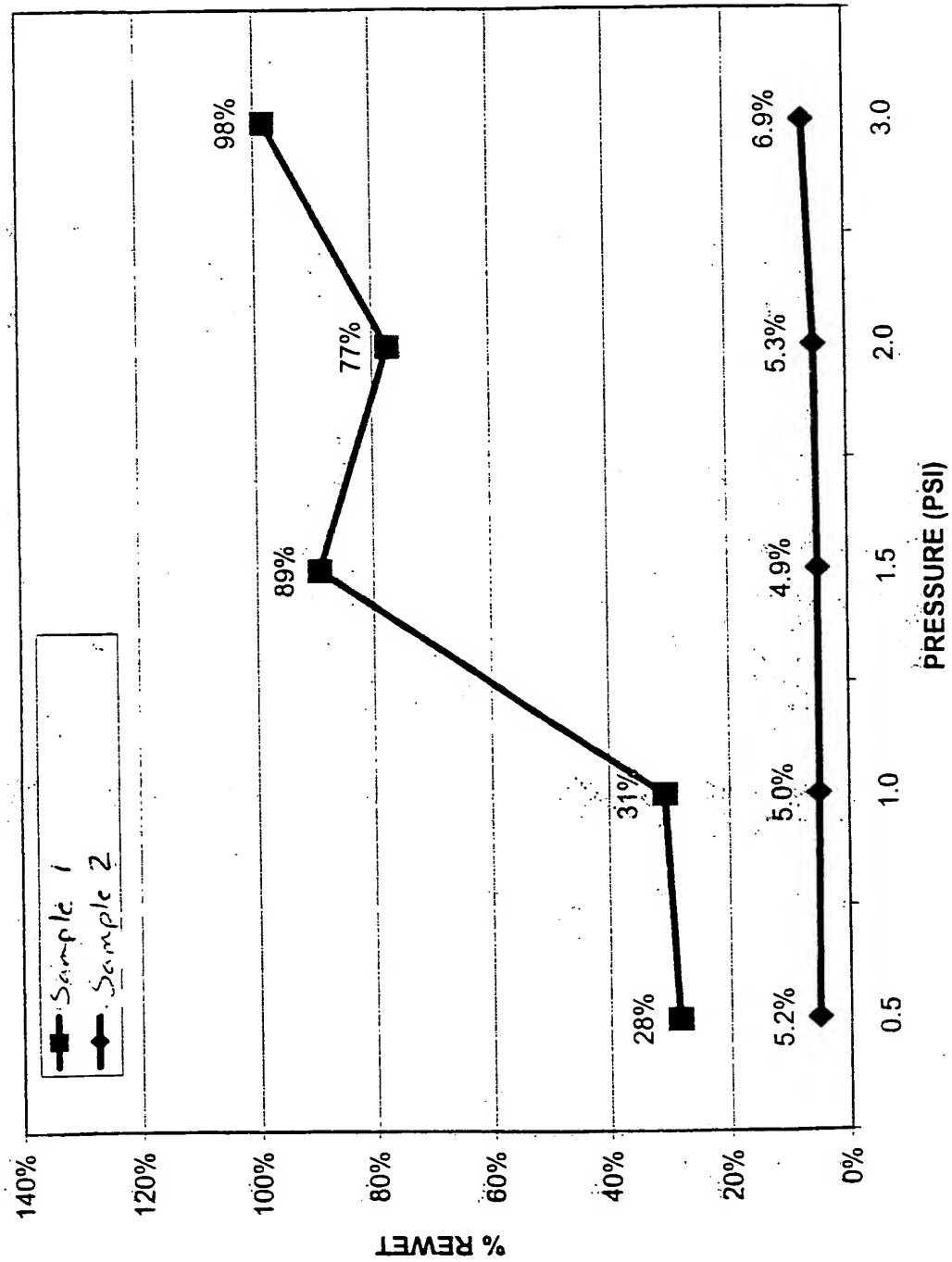
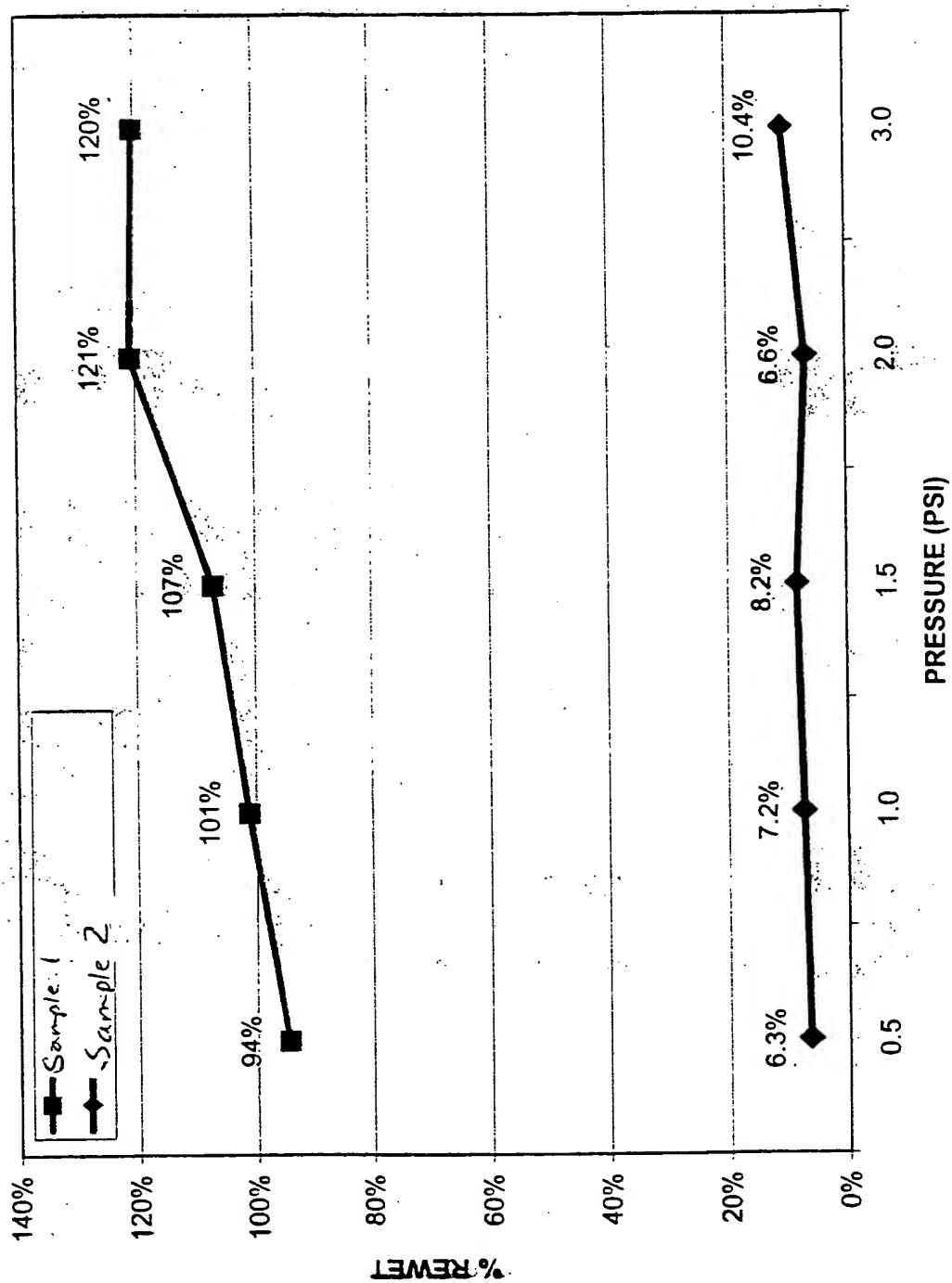


FIG. 13
REWET UNDER LOAD @ 50% SATURATION FOR TISSUE ONLY (NO LINER)



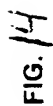
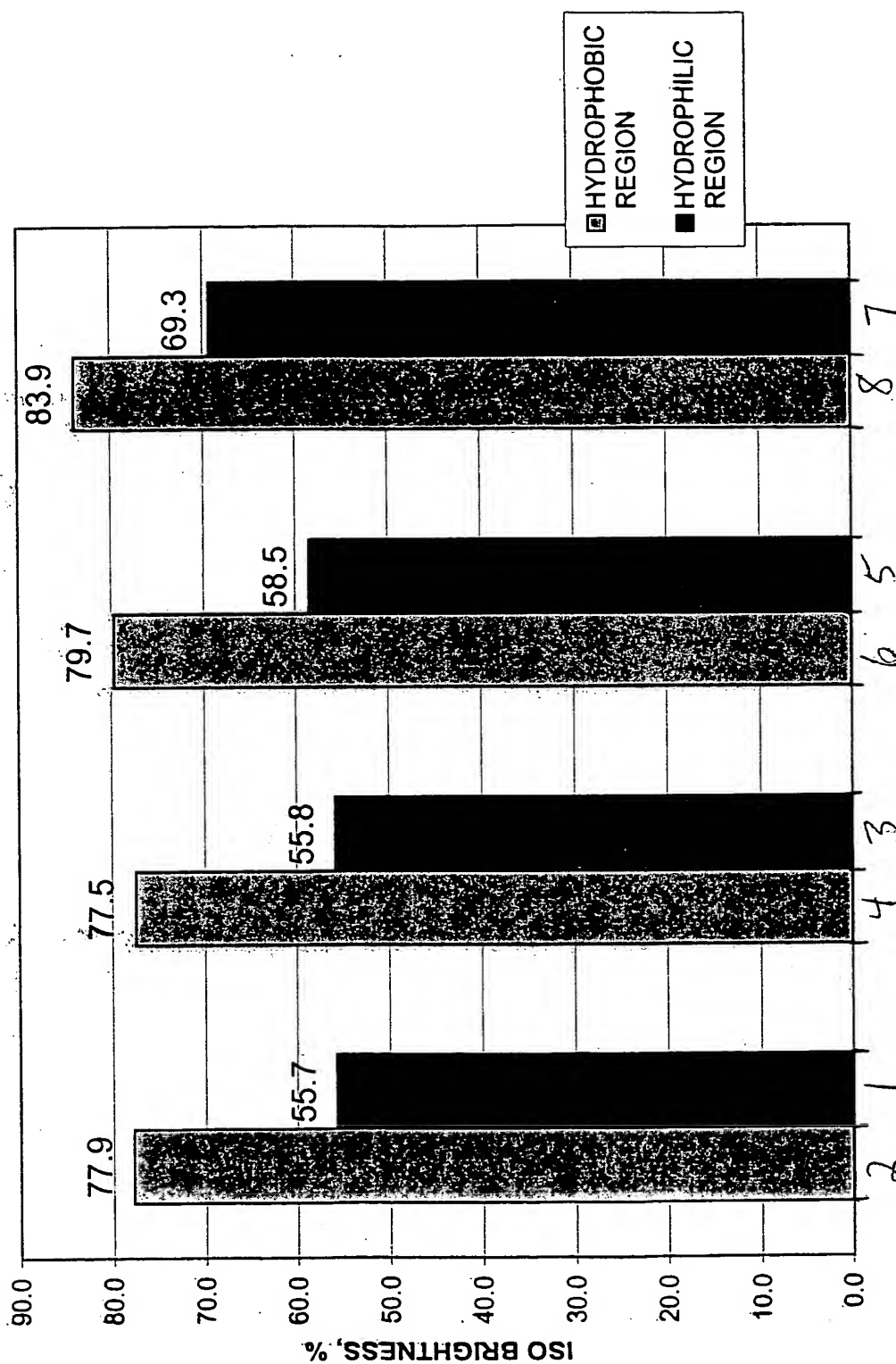


FIG. 15

"ISO BRIGHTNESS %" OF HYDROPHOBIC AND HYDROPHILIC REGIONS



Sample #

FIG. 16

"COLOR L FACTOR" OF HYDROPHOBIC AND HYDROPHILIC REGIONS

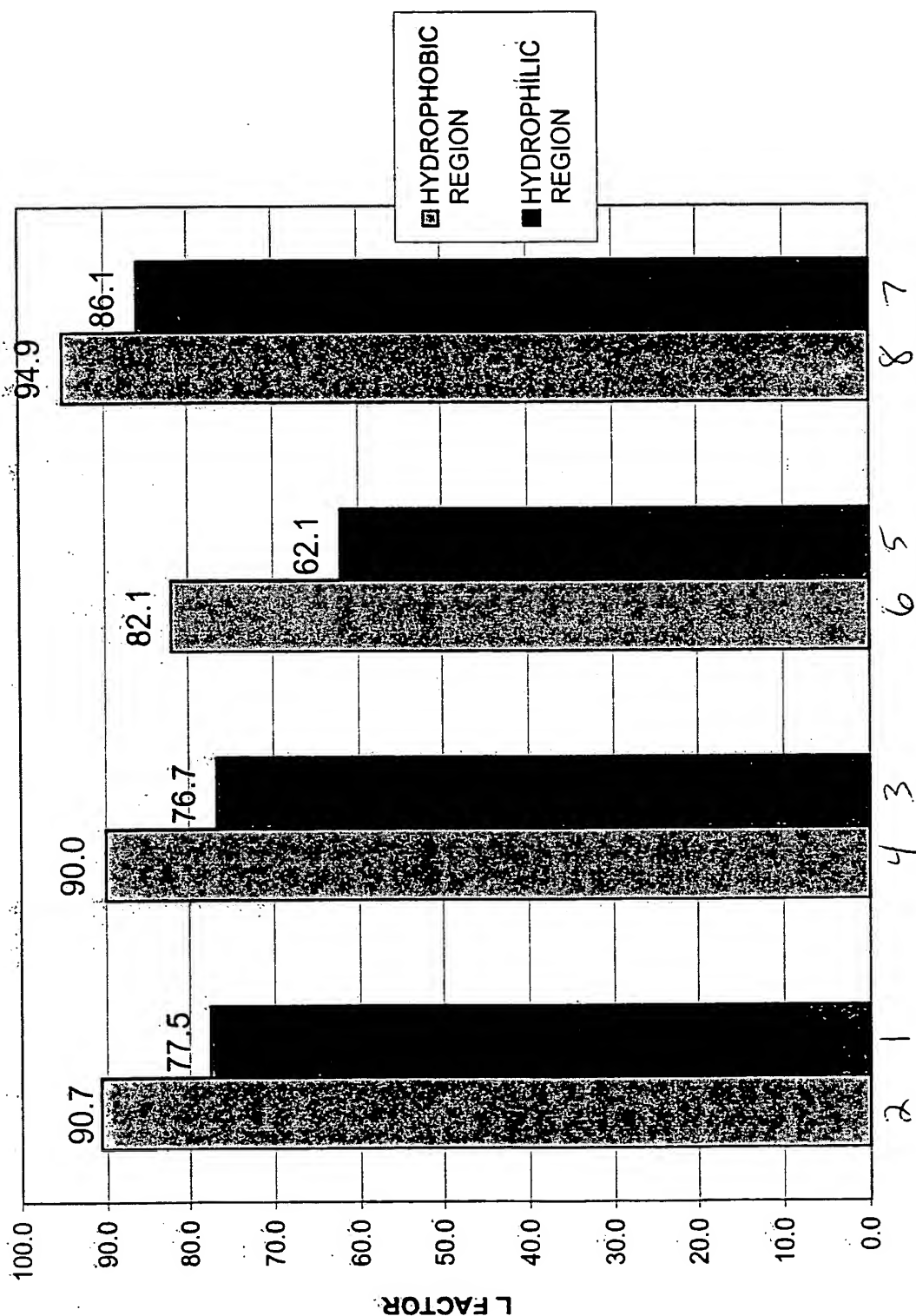
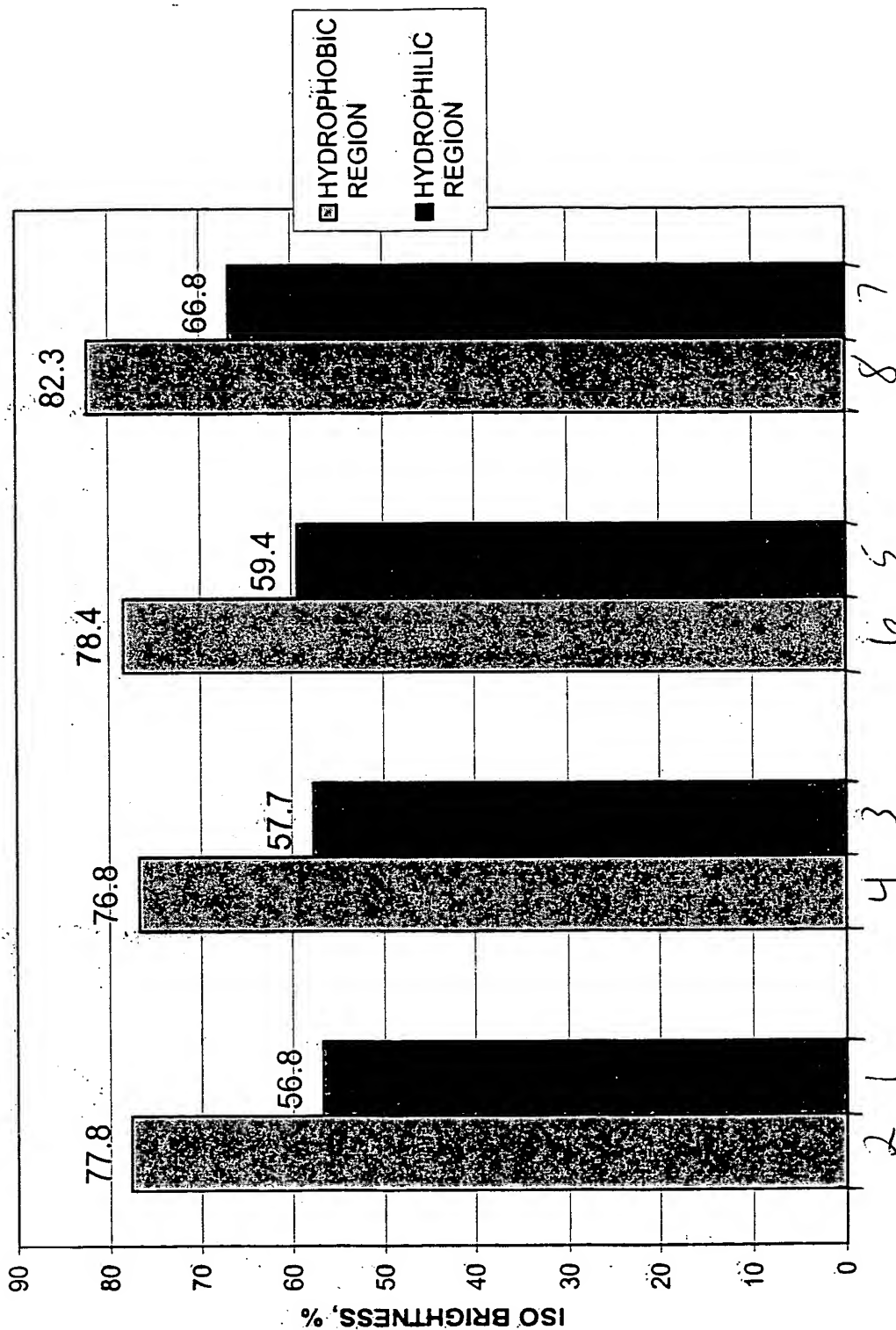


FIG. 17

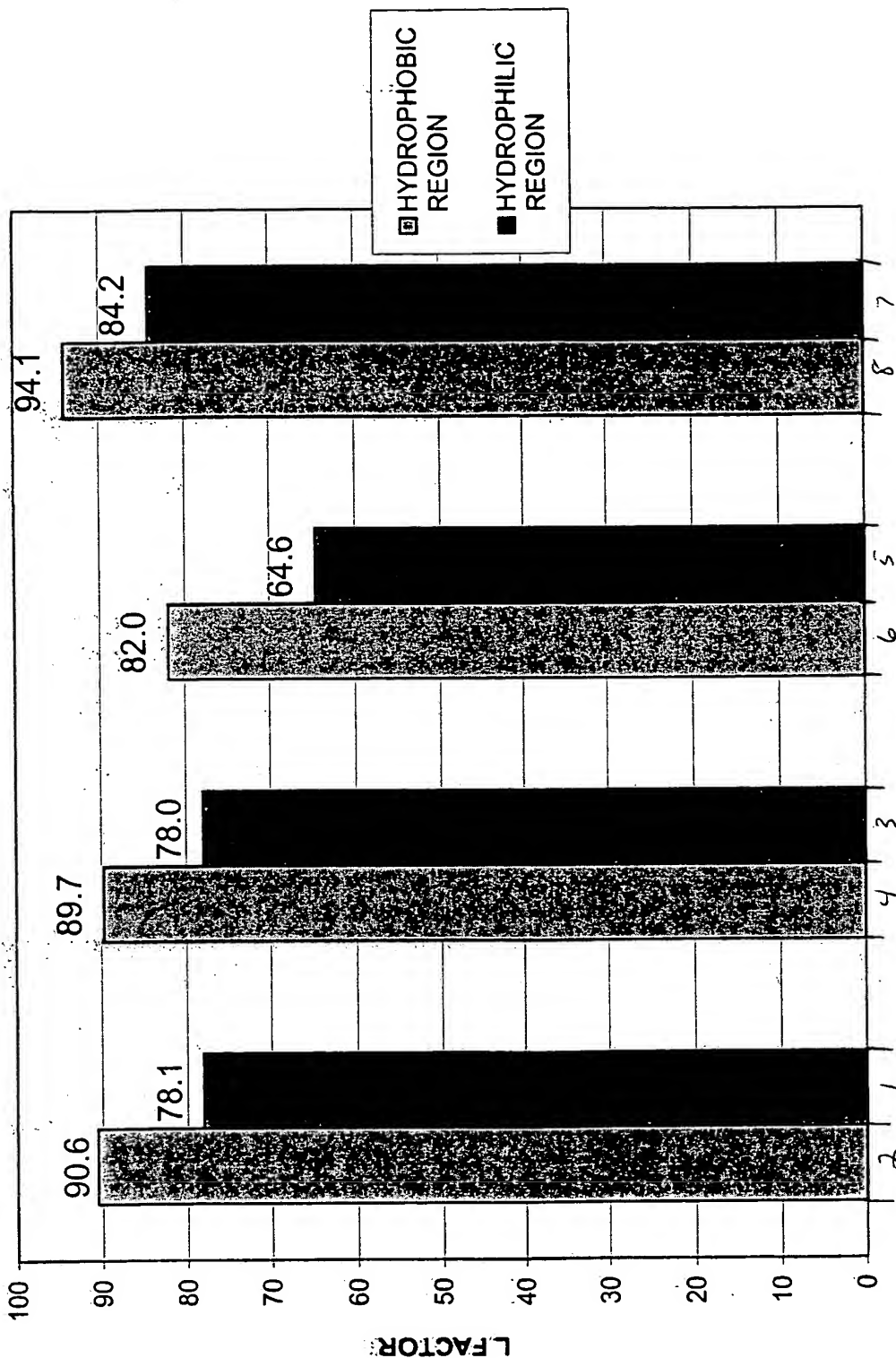
"ISO BRIGHTNESS, %" OF HYDROPHOBIC AND HYDROPHILIC REGIONS



Sample #

FIG. 18

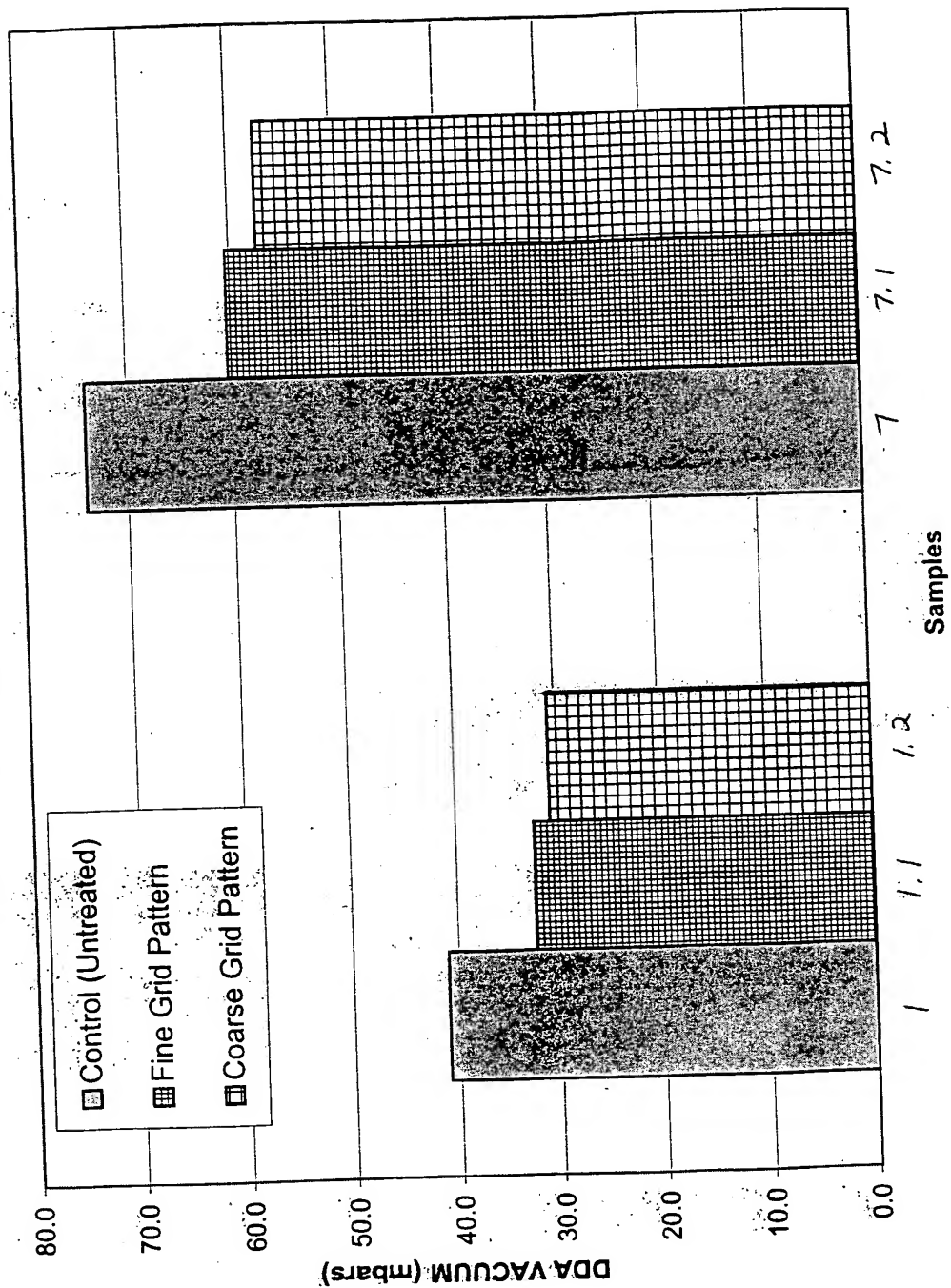
"COLOR L FACTOR" OF HYDROPHOBIC AND HYDROPHILIC REGIONS



Sample #

FIG. 19

WET DDA PERMEABILITIES



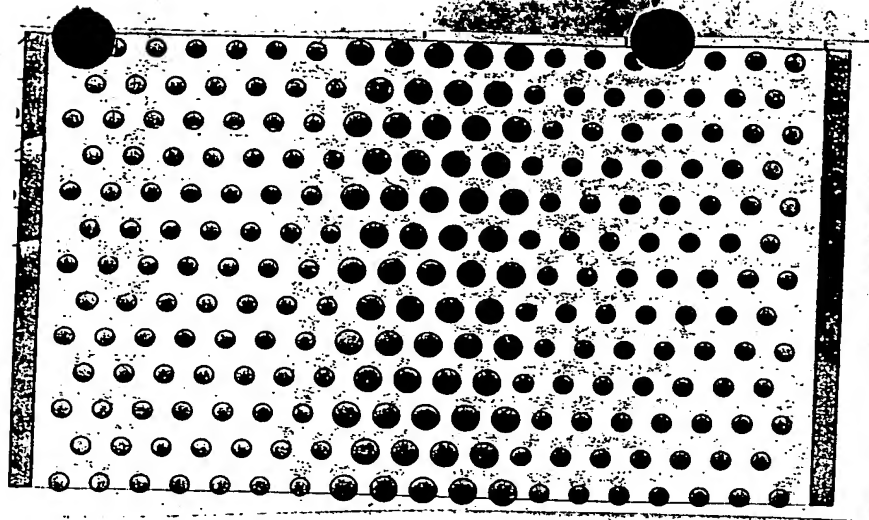


Fig. 20

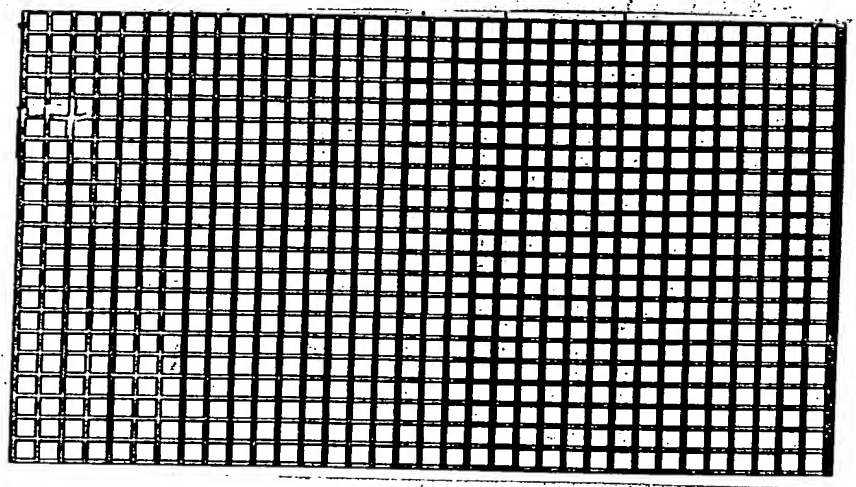


Fig. 21

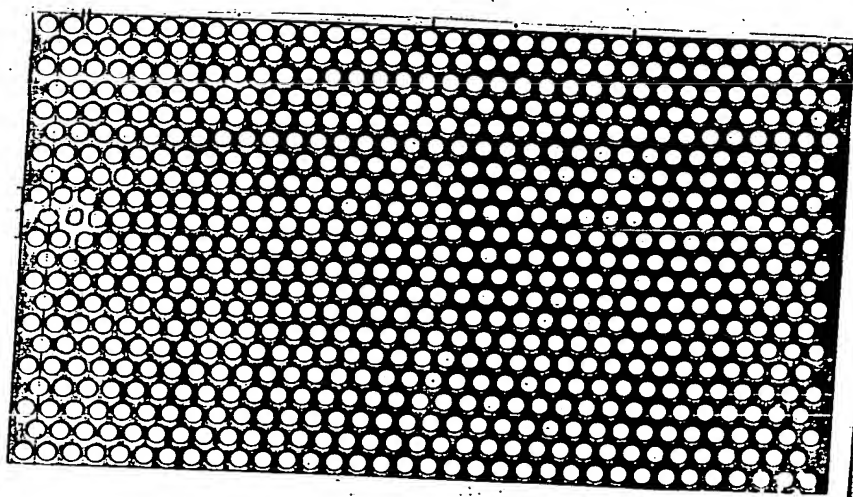


Fig. 22